

# Notice of Allowability

Application No.

09/606,891

Examiner

Scott A Rogers

Applicant(s)

BARNICK, WILLIAM M.

Art Unit

2626

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the election filed 18 October 2005.
2. ☒ The allowed claim(s) is/are 1-33 and 37.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 29 June 2000
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
SCOTT ROGERS  
PRIMARY EXAMINEE

***Election/Restrictions***

This application is in condition for allowance except for the presence of claims 34-36 drawn to a distinct invention non-elected without traverse.

**Claims 34-36 have been cancelled.**

***Examiner's Reasons for Allowance***

The following is an examiner's statement of reasons for allowance:

Referring to claims 1-32 and 37, the prior art searched and of record neither anticipates nor suggests in the claimed combinations, deriving a correction factor from a comparison of variations in intensity between at least one reference image pixel and each image pixel of an image captured from a spatial light modulator, and determining gain of correction at each code value for each image pixel, applying both corrector factor and gain to the digital image transmitted to the spatial light modulator.

Referring to claim 33, the prior art searched and of record neither anticipates nor suggests in the claimed combinations, scanning a printed image of a digital image transmitted to the spatial light modulator to compare variations in intensity with a reference image to derive a correction factor which is applied with a derived gain to said digital image for subsequent printing.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Drawings***

New corrected (formal) drawings in compliance with 37 CFR 1.121(d) are now required in this application because examination is complete and the application has been allowed. Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

### ***Prior Art***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kondoh et al (US 6496176 B1) disclose an apparatus for automatically obtaining an optimum drive voltage value for a liquid crystal panel. A display capture device captures an image displayed on the liquid crystal panel and a display difference circuit compares captured image data stored in a capture memory with reference image data stored in a reference memory to determine an optimum drive voltage setting. A voltage value adjusting circuit adjusts the voltage value for application to the liquid crystal panel based on the optimum drive voltage setting.

Aoki (US 5793221 A) discloses an LCD panel test apparatus that has an image compensation means and a correction table to automatically compensates the

differences among the LCD panel test apparatuses by multiplying the measured data with correction factors stored in the correction table.

Frazier (US 5081523 A) discloses a display image correction system (20) that corrects display image errors (such as intensity errors) by detecting deviations in the display image from the input image on a pixel-by-pixel basis and providing correction signals to the display system's image generator. The image correction method is adaptable to a wide variety of display systems, such as CRT monochrome and color displays, and fixed-position LCD and LED displays. It can operate on a real time basis using feedback of detected pixel output from a display image, or on a sampled basis using stored correction factors calculated from a test image.

Fujita et al (JP 04244929 A and JP 04244932 A) disclose an optical type liquid crystal display defect inspection device that displays a pattern on liquid crystal display 3, reads the pattern on the surface of the liquid crystal display 3 with an image sensor, and compares the results with a reference pattern to determine defects.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott A Rogers whose telephone number is 571-272-7467. The examiner can normally be reached on Monday & Wednesday 6:00am-6:00pm and Tuesday & Thursday 6:00am-2:00pm.

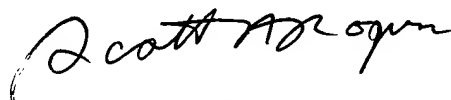
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached at 571-272-7471.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC2600 Customer Service at 571-272-2600. Official correspondence by facsimile should be sent to 703-872-9306. The USPTO contact Center phone numbers are 800-PTO-9199.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

17 April 2005



SCOTT ROGERS  
PRIMARY EXAMINER